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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/539,963	06/23/2006	Joachim Laempe	SMB-PT150 (PC 03 460 M 8663 US	
³⁶²⁴ VOLPE AND I	590 06/11/2007 OENIG. P.C.		EXAMINER	
UNITED PLAZ	ZA, SUITE 1600	LIN, KUANG Y		
30 SOUTH 17TH STREET PHILADELPHIA, PA 19103			ART UNIT	PAPER NUMBER
	,		1725	
			MAIL DATE	DELIVERY MODE
			06/11/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)		
		10/539,963	LAEMPE, JOACHIM		
Office Ac	tion Summary	Examiner	Art Unit		
		Kuang Y. Lin	1725		
The MAILING Period for Reply	DATE of this communication app	ears on the cover sheet with the c	orrespondence address		
WHICHEVER IS LOI - Extensions of time may be after SIX (6) MONTHS fror - If NO period for reply is sp. - Failure to reply within the s Any reply received by the 0	NGER, FROM THE MAILING DA available under the provisions of 37 CFR 1.13 in the mailing date of this communication. ecified above, the maximum statutory period we et or extended period for reply will, by statute,	IS SET TO EXPIRE 3 MONTH(ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE date of this communication, even if timely filed	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status					
2a) ☐ This action is F 3) ☐ Since this appl	ication is in condition for allowar	une 2005. action is non-final. nce except for formal matters, pro x parte Quayle, 1935 C.D. 11, 45			
Disposition of Claims					
4a) Of the above 5) ☐ Claim(s) 6) ☒ Claim(s) <u>1-16</u> i 7) ☐ Claim(s)	s/are rejected.	vn from consideration.			
Application Papers					
10) The drawing(s) Applicant may not Replacement drawns	ot request that any objection to the cawing sheet(s) including the correcti	r. epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is objection. Make the attached Office the attached Office.	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C	. § 119	•			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) ⊠ Notice of References Cit	ed (PTO-892)	4) 🔲 Interview Summary ((PTO.413)		
2) Notice of Draftsperson's 3) Information Disclosure S Paper No(s)/Mail Date 6	Patent Drawing Review (PTO-948) tatement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te		

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1. Claims 6 and 7 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 6, it is not clear how and in what manner the drive is controlled. In claim 7, the means of the claim is not clear.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- 3. Claims 1and 2 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by either US 4,184,533 to Breitharth, US 3,704,743 to Edwards or GB 776,031.
- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 3-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 4,184,533 to Breitbarth and further in view of US 6,793,001 to Sakou et al.

Breitbarth substantially shows the invention as claimed except that he does not show to provide the shoot unit with a shoot cylinder upstream of the shooting head. However, Sakou et al. show that it is conventional to provide a shooting cylinder upstream of the shooting head such that to facilitate the mold material shooting process. It would have been obvious to provide the shooting unit of Breitbarth with the shooting cylinder of Sakou et al. to facilitate the mold material

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shooting process. With respect to claims 9, 11, 13, and 16, it would have been obvious to those of ordinary skill in the foundry art to design appropriate number pair of vanes and the proper configuration of the vane in the shooting unit to obtain the optimal agitation for the molding material in the shooting unit through routine experimentation. With respect to claim 15, it would have been obvious to provide an arrangement for discharging any excess material in the shooting head such that to clear the shooting passage for the next cycle of the mold making process.

- 6. The patent to Edwards is cited to further show the state of the art.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kuang Y. Lin whose telephone number is 571-272-1179. The examiner can normally be reached on Monday-Friday, 10:00-6:30,.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Kuang Y. Lin Primary Examiner Art Unit 1725

5-29-07